INTERNATIONAL SEARCH REPORT

Inte _ 31 Application No PCT/US2004/035203

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01J29/87 H01J29/86 H01J29/88 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) **EPO-Internal** C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category ° 1,6, US 3 166 211 A (STEL MARINUS ET AL) 15-17, 19 January 1965 (1965-01-19) 22,29 column 2, line 29 - column 3, line 25 1-3, 8-11, 15-20 GB 988 182 A (THORN-A.E.I. RADIO VALVES 1,6, 15-17, AND TUBES LIMITED) 22,29 7 April 1965 (1965-04-07) page 2, lines 55-115 22 US 2002/079825 A1 (VAN DEN BRINK JAN P ET X AL) 27 June 2002 (2002-06-27) abstract page 2, paragraphs 15,22,23 Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not cited to understand the principle or theory underlying the considered to be of particular relevance invention *E" earlier document but published on or after the International "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docu-*O* document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled other means in the art. "P" document published prior to the international filing date but "&" document member of the same patent family later than the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 31/08/2005 2 May 2005 **Authorized officer** Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Gols, J Fax: (+31-70) 340-3016

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